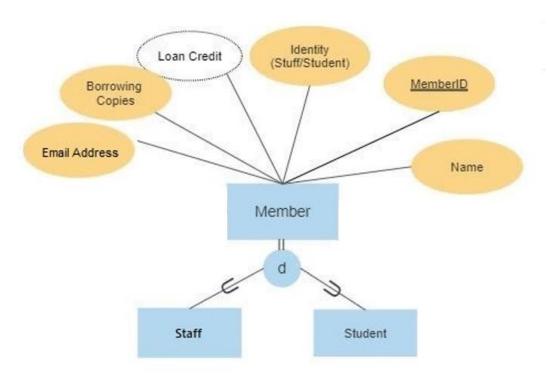
I. Entities

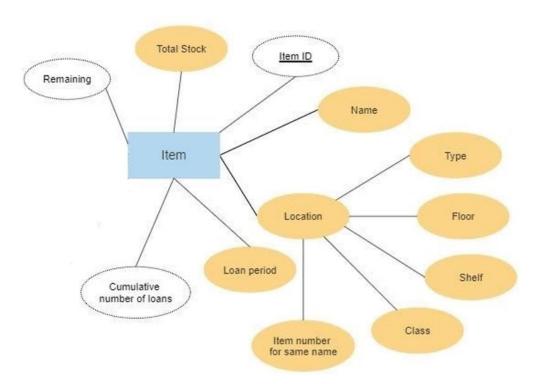
1.Member



- Create a table for the entity set: Member
- Make each attribute of the entity set a field of the table, with an appropriate type.
- Declare the field or fields comprising the primary key : <u>MemberID</u>

Member		
PK	Member ID	Simple
	Name	Simple
	Identity	Simple
	Email Address	Simple
	Loan_Credit	Derived
	Borrowing_Copies	Simple

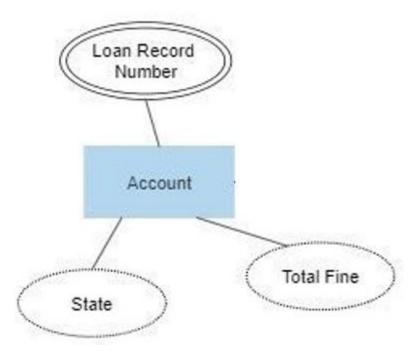
2.Items



- Create a table for the entity set: Items
- Make each attribute of the entity set a field of the table, with an appropriate type. Location is a composite attribute contains Floor, Shelf and Class.
- Declare the field or fields comprising the primary key : ITEM_ID

Item		
PK	Item ID	Simple
	Name	Simple
	Туре	Simple
	Floor	
	Shelf	Composite
	Class	/
	Item_number_for_same_name	Simple
	Total_Stock	Simple
	Loan_period	Simple

3.Account

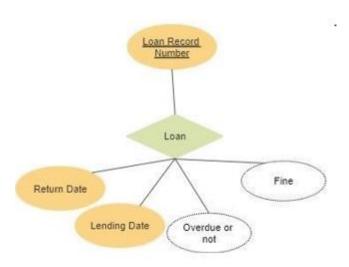


- Create a table for the entity set: Account
- Make each attribute of the entity set a field of the table, with an appropriate type.
- Declare the field or fields comprising the primary key : <u>MEMBER_ID</u>

Account		
FK	Member_ID	Simple
	Total_Fine	Derived
FK	Loan_Record_Number	Simple
	State	Simple

II.RELATIONS

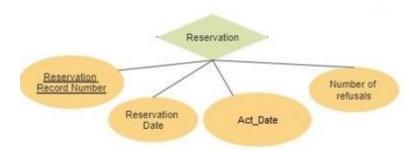
1.Loan



- Create a table for the relationship set: Loan
- Add all primary keys of the participating entity sets as fields of the table:
 MemberID and ItemID
- Add a field for each attribute of the relationship.
- A primary key called Loan_Record_Number is generated.
- Declare foreign key constraints for all the fields from the source and target entity sets: MemberID and ItemID

Loan			
PK	Loan Record Number	Simple	
FK	Member_ID	Simple	
FK	Item_ID	Simple	
	Lending_Date	Simple	
	Return_Date	Simple	
	Overdue	Derived	
	Fine	Derived	

2.Reservation



- Create a table for the relationship set: Reservation
- Add all primary keys of the participating entity sets as fields of the table:
 MemberID and ItemID
- Add a field for each attribute of the relationship.
- A primary key called Reservation_Record_Number is generated.
- Declare foreign key constraints for all the fields from the source and target entity sets: MemberID and ItemID

Reservation			
PK	Reservation Record Number	Simple	
FK	Member_ID	Simple	
FK	Item_ID	Simple	
	Reservation_Date	Simple	
	Act Date	Simple	
	Number_of_refusals	Simple	